DAIKIN

technical data

air conditioning systems

CTK/XS-DVML

Wall Mounted,
Inverter Controlled Unit

Split Sky Air

Split - Sky Air

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

DAIKIN EUROPE N.V.

Zandvoordestraat 300
B - 8400 Ostend Belgium
www.daikineurope.com

EEDE05-1/3 • 05/2005
Prepared in Belgium by Goekint Graphics

TABLE OF CONTENTS

CTK/XS-DVML

1 Features 2

2 Specifications 3
CTKS-D
Nominal capacity and power input 3
Technical Specifications 3
Electrical Specifications 4
CTXS-D
Nominal capacity and power input 4
Technical Specifications 5
Electrical Specifications 6

3 Dimensional drawing & centre of gravity 7
Dimensional drawing 7
Centre of gravity 8

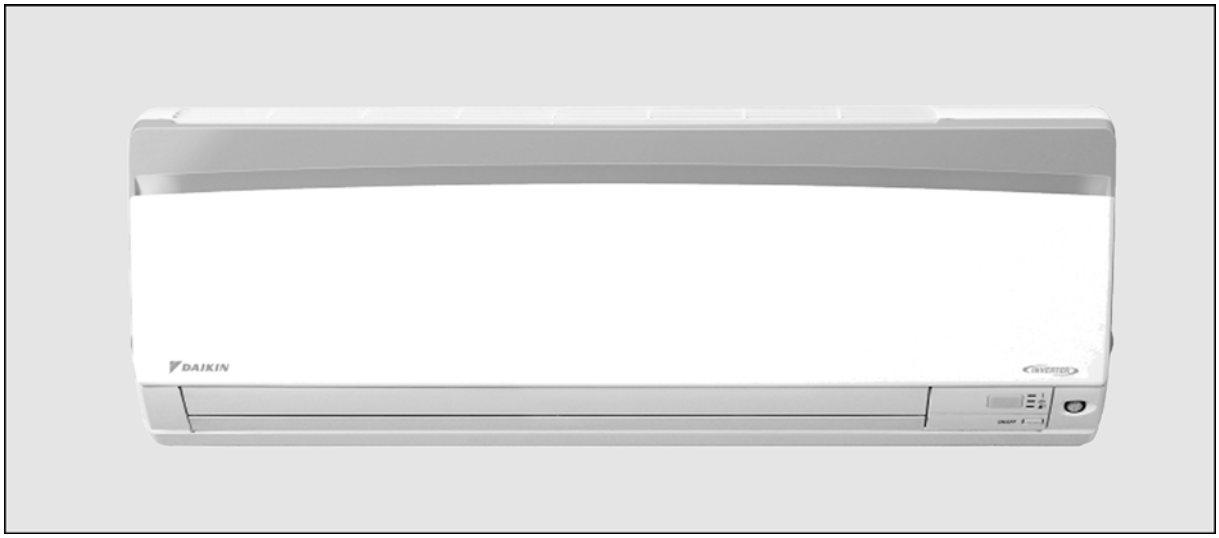
4 Piping diagram 9

5 Wiring diagram 10

6 Sound data 11
Sound pressure spectrum 11

1 Features

- Comfort mode reassures draught-free operation
- Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- You have the choice out of 5 fan speeds to select
- Daikin's special dry programme reduces humidity in the room without variation in room temperature
- Night set mode saves energy by preventing overcooling or overheating during night time
- Powerful mode can be selected for rapid cooling
- Indoor unit silent operation: "Silent" button on the remote control lowers the operation sound of the indoor unit by 3dB(A).
- The new titanium apatite photocatalytic air purification filter increases the active surface area for effective purification and deodorisation
- ECONO mode decreases power consumption so that other appliances that need large power supply can be used
- The movement sensor saves power consumption in unoccupied rooms
- Daikin remote controls give you easy control at your fingertips.



optional

5 steps

standard

(integrated titanium apatite)

2 Specifications

2-1 NOMINAL CAPACITY AND POWER INPUT			
For indoor units only:			
INDOOR UNITS			**CTKS50DVML**
NOMINAL INPUT	Cooling	kW	-

For combination indoor + outdoor units (air cooled):			
COOLING ONLY - INVERTER CONTROLLED (air cooled)			**CTKS50DVML**
			4MKS58,75,90DVMB
Cooling capacity	min~nom~max	kW	For more detailed information about capacities, power input, EER, Energy label and anual energy consumption, please refer to our Multi Model catalogue/combination tables or check with your local dealer
Nominal input	min~nom~max	kW	
EER			
Energy label			
Annual energy consumption	Cooling	kWh	

2-2 TECHNICAL SPECIFICATIONS				**CTKS50DVML**
Casing	Colour			White + silver line
Dimensions	Packing	Height	mm	340
		Width	mm	855
		Depth	mm	265
	Unit	Height	mm	283
		Width	mm	800
		Depth	mm	195
Weight	Machine Weight		kg	9.0
	Gross Weight		kg	12.0
Heat Exchanger	Dimensions	Length	mm	610
		Nr of Rows		2
		Fin Pitch	mm	1.40
		Nr of Stages		14
	Tube type			Hi-XA (7)
	Fin	Type		ML fin (Multi louver)
Fan	Type			Cross flow fan
Air Flow Rate	Cooling	High	m^3/min	11.4
		Medium	m^3/min	9.3
		Low	m^3/min	7.1
		Silent Operation	m^3/min	6.2
Fan	Motor	Quantity		1
		Model		KFD-280-40-8B
		Number of steps		5 steps, silent and auto
Motor	Speed (cooling)	High	rpm	1620
		Medium	rpm	1350
		Low	rpm	1090
		Silent Operation	rpm	980
Fan	Motor	Output (high)	W	40
Cooling	Sound Power	High	dBA	64.0
	Sound Pressure	High	dBA	46.0
		Low	dBA	35.0
		Silent Operation	dBA	32.0
Refrigerant	Type			R-410A

2

2-2 TECHNICAL SPECIFICATIONS				CTKS50DVML
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.4
	Gas	Diameter (OD)	mm	12.7
	Drain	Diameter (OD)	mm	18
	Heat Insulation			Both liquid and gas pipes
Air Filter				Removable/washable/Mildew proof
Air direction control				Left, right, up and downwards
Temperature control				Microcomputer control
Standard Accessories	Item			Titanium apatite photocatalytic air purification filter
	Quantity			2
	Item			Operation manual
	Quantity			1
	Item			Installation manual
	Quantity			1
	Item			Infrared remote control
	Quantity			1
	Item			Infrared remote control
	Quantity			1
	Item			Batteries
	Quantity			2
	Item			Remote control holder
	Quantity			1
	Item			Indoor unit fixing screws
	Quantity			2
	Item			Mounting plate
	Quantity			1

2-3 ELECTRICAL SPECIFICATIONS				CTKS50DVML
Power Supply	Name			VM
	Phase			1
	Frequency		Hz	50/60
	Voltage		V	220-240/220-230
Wiring connections	For Power Supply	Quantity		3
		Remark		4 for interunit wiring (included earth wiring)
Voltage range	Minimum			-10%
	Maximum			+10%
Power Supply Intake				Outdoor unit only

2-4 NOMINAL CAPACITY AND POWER INPUT			
For indoor units only:			
INDOOR UNITS			**CTXS50DVML**
NOMINAL INPUT	Cooling	kW	-
	Heating	kW	-

For combination indoor + outdoor units (air cooled):				
COOLING ONLY - INVERTER CONTROLLED (air cooled)				**CTXS50DVML**
				2,3MXS52/4MXS68,80DVMB
Cooling capacity		min~nom~max	kW	For more detailed information about capacities, power input, EER, COP, Energy label and anual energy consumption, please refer to our Multi Model catalogue/combination tables or check with your local dealer
Heating capacity		min~nom~max	kW	
Nominal input	Cooling	min~nom~max	kW	
	Heating	min~nom~max	kW	
EER				
COP				
Energy label	Cooling			

2-5 TECHNICAL SPECIFICATIONS				CTXS50DVML
Casing	Colour			White + silver line
Dimensions	Packing	Height	mm	340
		Width	mm	855
		Depth	mm	265
	Unit	Height	mm	283
		Width	mm	800
		Depth	mm	195
Weight	Machine Weight		kg	9.0
	Gross Weight		kg	12.0
Heat Exchanger	Dimensions	Length	mm	610
		Nr of Rows		2
		Fin Pitch	mm	1.40
		Nr of Stages		14
	Tube type			Hi-XA (7)
	Fin	Type		ML fin (Multi louver)
Fan	Type			Cross flow fan
Air Flow Rate	Cooling	High	m^3/min	11.4
		Medium	m^3/min	9.3
		Low	m^3/min	7.1
		Silent Operation	m^3/min	6.2
	Heating	High	m^3/min	11.4
		Medium	m^3/min	9.4
		Low	m^3/min	7.4
		Silent Operation	m^3/min	6.3
Fan	Motor	Quantity		1
		Model		KFD-280-40-8B
		Number of steps		5 steps, silent and auto
Motor	Speed (cooling)	High	rpm	1620
		Medium	rpm	1350
		Low	rpm	1090
		Silent Operation	rpm	980
	Speed (heating)	High	rpm	1560
		Medium	rpm	1320
		Low	rpm	1080
		Silent Operation	rpm	960
Fan	Motor	Output (high)	W	40
Cooling	Sound Power	High	dBA	64.0
	Sound Pressure	High	dBA	46.0
		Low	dBA	35.0
		Silent Operation	dBA	32.0
Heating	Sound Power	High	dBA	62.0
	Sound Pressure	High	dBA	44.0
		Low	dBA	33.0
		Silent Operation	dBA	30.0
Refrigerant	Type			R-410A
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.4
	Gas	Diameter (OD)	mm	12.7
	Drain	Diameter (OD)	mm	18
	Heat Insulation			Both liquid and gas pipes
Air Filter				Removable/washable/Mildew proof
Air direction control				Left, right, up and downwards
Temperature control				Microcomputer control

2-5 TECHNICAL SPECIFICATIONS		CTXS50DVML
Standard Accessories	Item	Titanium apatite photocatalytic air purification filter
	Quantity	2
	Item	Operation manual
	Quantity	1
	Item	Installation manual
	Quantity	1
	Item	Infrared remote control
	Quantity	1
	Item	Batteries
	Quantity	2
	Item	Remote control holder
	Quantity	1
	Item	Indoor unit fixing screws
	Quantity	2
	Item	Mounting plate
	Quantity	1

2-6 ELECTRICAL SPECIFICATIONS				CTXS50DVML
Power Supply	Name			VM
	Phase			1
	Frequency		Hz	50/60
	Voltage		V	220-240/220-230
Wiring connections	For Power Supply	Quantity		3
		Remark		4 for interunit wiring (included earth wiring)
Voltage range	Minimum			-10%
	Maximum			+10%
Power Supply Intake				Outdoor unit only

NOTES

1 Sound values are measured in an anechoic room.

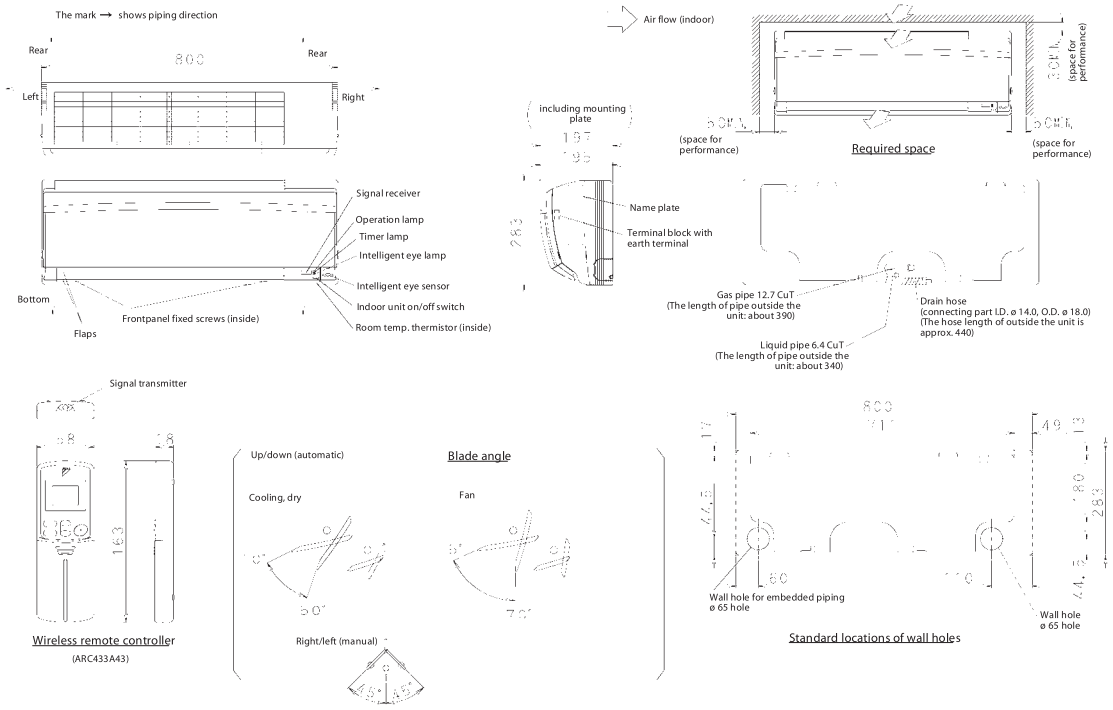
2 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.

3 The sound power level is an absolute value indicating the power which a sound source generates.

3 Dimensional drawing & centre of gravity

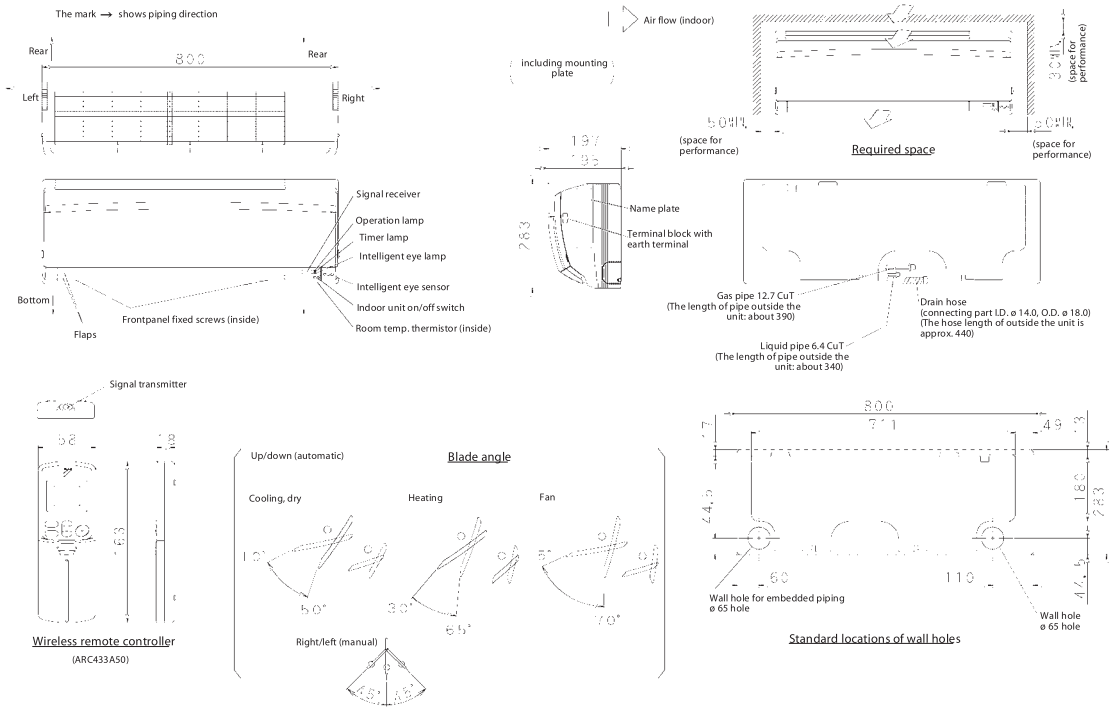
3 - 1 Dimensional drawing

CTKS50DVMW/L



3D047240A

CTXS50DVMW/L

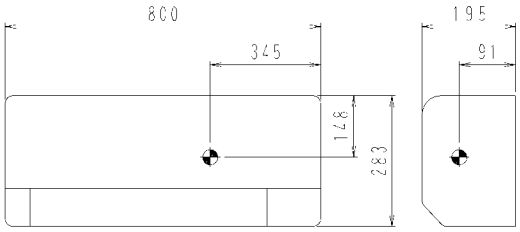


3D047240A

3 Dimensional drawing & centre of gravity

3 - 2 Centre of gravity

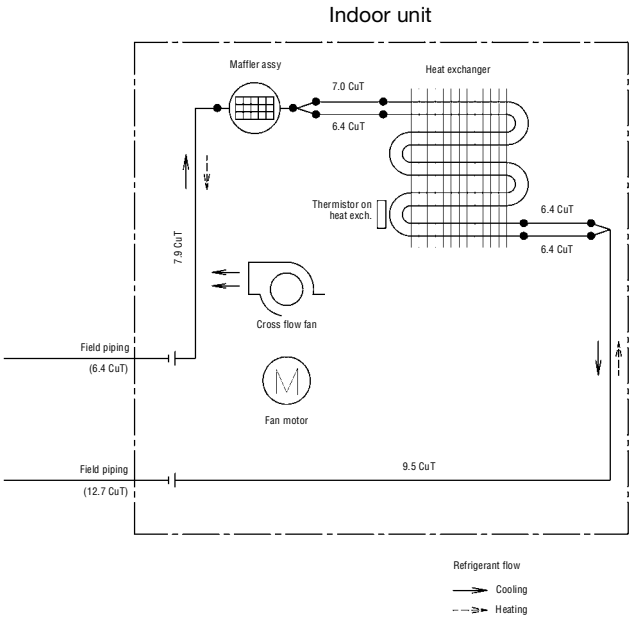
CTK/XS50DVMW/L



4D048210

4 Piping diagram

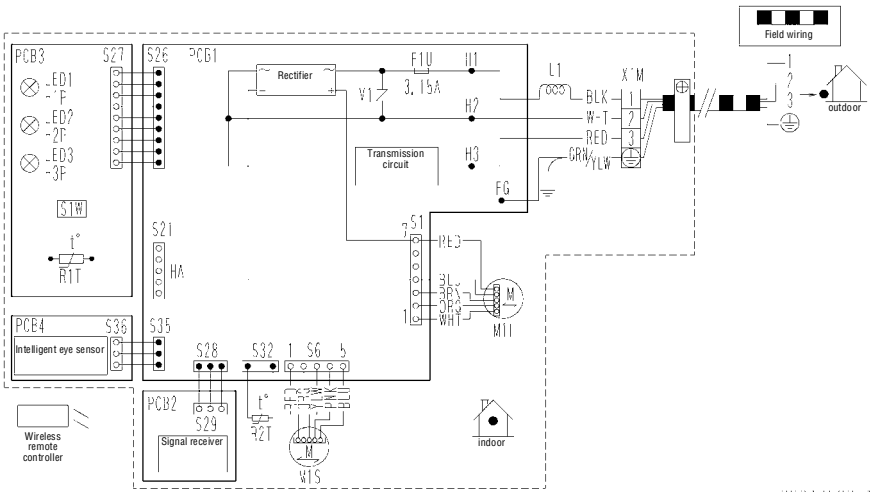
CTK/XS50DVMW/L



4D047913

5 Wiring diagram

CTK/XS50DVMW/L



LEGEND

⏚	Protective earth
FG	Frame ground
F1U	Fuse
H1P~H3P	Pilot lamp
L1	Coil
M1F	Fan motor
M1S	Swing motor
PCB1~PCB4	Printed circuit board
R1T, R2T	Thermistor
S1~S38	Connector
S1W	Operation switch
X1M	Terminal strip

NOTES

1 Size: length 70 x width 120.
2 Refer to purchasing specification AS303002, unless otherwise specified.
3 This drawing was drawn on CAD system.
4 Caution: Note that operation will restart automatically if the main power supply is turned off and then back on again.

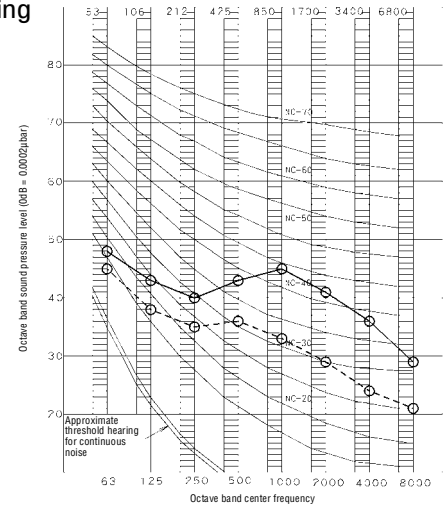
3D047523

6 Sound data

6 - 1 Sound pressure spectrum

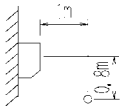
CTKS50DVMW/L

Cooling



NOTES

1 Measurement was taken in an anechoic room.
2 The operation noise measuring method is in accordance with JISC9612.
3 Operating conditions:
Power source = 220-240/220-230 V, 50/60 Hz
o------o H (A = 46) and o- - - -o L (A = 35)
4 Operation noise differs with operation and ambient conditions.



Location of microphone

4D048246

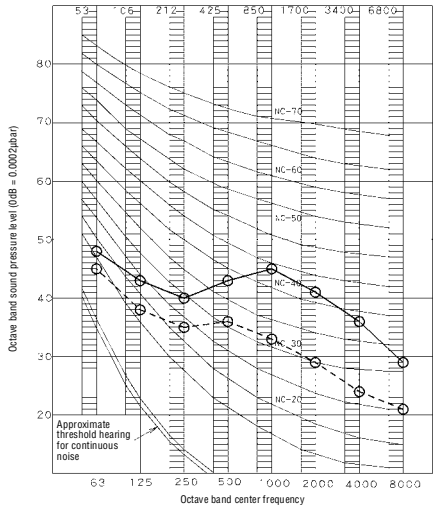
6 Sound data

6 - 1 Sound pressure spectrum

6

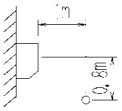
CTXS50DVMW/L

Cooling



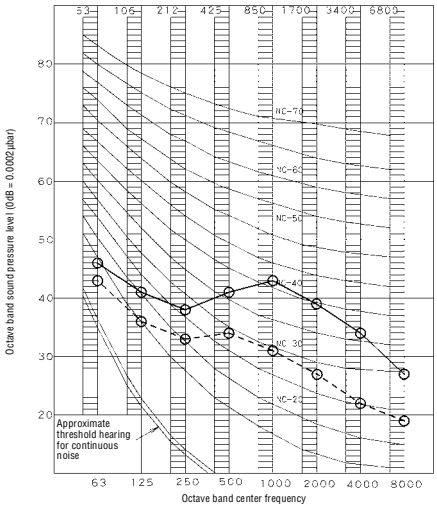
NOTES

1 Measurement was taken in an anechoic room.
2 The operation noise measuring method is in accordance with JISC9612.
3 Operating conditions:
Power source = 220-240/220-230 V, 50/60 Hz
o------o H (A = 46) and o- - - -o L (A = 35)
4 Operation noise differs with operation and ambient conditions.



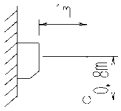
Location of microphone

Heating



NOTES

1 Measurement was taken in an anechoic room.
2 The operation noise measuring method is in accordance with JISC9612.
3 Operating conditions:
Power source = 220-240/220-230 V, 50/60 Hz
o------o H (A = 44) and o- - - -o L (A = 33)
4 Operation noise differs with operation and ambient conditions.



Location of microphone

3D048223